# COMP 3012 Back-End Web Development with Node.js

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| Take-home Assignment | 3 |

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## Exercise Objective:

The purpose of this assignment is to practice the concepts and skills which are covered till Week 8.

You need to submit a zip file for Task 1, along with a Word/PDF file for Task 2 & 3.

Task 1: Make a Node/Express.js project

Requirements:

1. Listen to port 8081
2. Home Page: to show a table of all the courses you took from last term and are taking in this term, with details:
   1. Course number
   2. Course name
   3. Description
   4. Credits
   5. Pre-requisites
3. Information should be loaded by your .js file from a .json file at server side
4. Using TypeScript to define a type for course
5. Your zip file should include both of .ts file and .js file
6. Your zip file should not include node\_modules folder(otherwise, you will lose 10%)

Task 2: Explain what ES6 features you used in this application, along with your code snippets

Note: let, const and arrow functions will not count for this assignment

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So in this assignment beside the express and let const js staff. We used the Map function from ES6 the purpose of usage used to be the required ‘./courses’ it was taken from courses.js that was generated and exported(snippet in task:3) from our courses.ts(snippet in task:3) which reads and parse the courses-data.json file which had all the information. So our map function looped through the our array and on the return callback we did created the table with html tags which stored all the course information in table. Which had first two column Course Name and Number/Id and 2nd,3rd description with credits and last one was for prerequisites. Finally in line 23 we created the route with express server and in body just with response send the createTable function which creates the table and prints in page and listens port 8081.

Task 3: Code snippets to show your:

* Type definition with TypeScript
* Loading/reading the .json file

TypeScript Definition Snippet:

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Snippet of Courses.js:  
Graphical user interface

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